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Sound familiar? Ever started what you thought was going to be a quick project only to find that you needed dozens of items from multiple vendors? Once you've identified what's needed, the really hard part begins. Where can you find equipment and parts suppliers? How can you find alternative resources and products?

Fortunately, the answer to those questions is in your hands.

This year's Broadcast Engineering DTV Buyers Guide and Web Reference has about everything you'll need to answer all the above questions and more. Whether it's products, manufacturers, suppliers or dealers you need help with, they are all cross listed in several ways.

If you need a specific product, first check the Product Index, which begins on page 8. Find the product you need and locate the page number on which vendors for that product are listed. Turn to those pages and you'll find multiple companies that can provide the type of products you need.

If you just want to know the address or phone number of a company, go to page 96. More than 500 companies and dealers are listed in alphabetic order.

Need a quick Web address? Beginning on page 84 is a listing of companies and their websites.

So, there you are. Almost everything you'll need to complete that new project. All that's required now is another cup of coffee or diet cola—and maybe a few weeks of time.

Good luck! Let us know how it goes.

Brad Dick, Editor
Solving the Digital Puzzle

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Acoustic materials ........................................ 12
Animation software ........................................ 34
Aspect ratio converters .................................... 52
Asset management systems .............................. 20
Audio A/D-D/A converters ................................. 18
Audio Accessories .......................................... 12
Audio cable .................................................. 82
Audio codecs ............................................... 12
Audio codes (telco) ......................................... 40
Audio compression/encoding equipment ............... 18
Audio compressor/expanders ............................. 16
Audio connectors ........................................... 18
Audio DAs ..................................................... 18
Audio effects systems .................................... 16
Audio meters ............................................... 12
Audio Mixers ................................................. 16
Audio monitor amplifiers ................................... 12
Audio patch panels ........................................ 12
Audio playback devices .................................... 18
Audio Processing ............................................. 16
Audio RAM recorders ...................................... 18
Audio Recording, Storage & Playback .................... 18
Audio routers ............................................... 18
Audio Routing & Distribution ............................. 18
Audio test and measurement equipment ................ 56
Audio/video mux/embedding equipment ................ 18
Automation Systems ........................................ 20
Batteries ...................................................... 44
Battery analyzers .......................................... 44
Battery chargers ............................................ 44
Broadcast cable equipment ............................... 24
Bulk erasers ............................................... 46
Cable management systems .............................. 50
Cable TV Equipment ....................................... 24
Camcorders ................................................... 24
Camera accessories ........................................ 24
Camera remote controls .................................. 24
Camera Robotics & Virtual Sets ......................... 24
Camera Support ............................................ 26
Camera support products (tripods) ........................ 26
Cameras ..................................................... 24
Cameras & Accessories .................................... 24
CATV system components ................................ 24
Character Generators & Prompters ....................... 26
Cleaning equipment/products ............................ 50
Commercial insertion equipment/software ............... 79
Composite/component encoder/decoders ................ 52
Compositing systems ...................................... 44
Compression encoder/decoders ............................ 68
Compression pre-processors ............................... 68
Compression/MPEG test equipment ....................... 56
Computer accessories ..................................... 30
Computer networking products .......................... 30
Computer systems ......................................... 30
Computers & Peripherals .................................. 30
Control signal routers/patch panels ....................... 73
CRT projectors .............................................. 72
Data multiplexers ......................................... 30
Data storage systems ..................................... 30
Data transmission systems ............................... 30
Desktop Video .............................................. 32
Desktop video systems .................................... 32
Digital Audio Workstations ............................... 32
Disk recorders (audio) .................................... 18
DLP projectors .............................................. 72
Dummy loads ............................................... 46
Duplication Equipment .................................... 34
DVD systems ............................................... 40
DVEs ......................................................... 44
EAS Products ............................................... 66
Editing systems and components ......................... 70
ENG microwave links ...................................... 40
ENG trucks .................................................. 66
Engineering software ...................................... 50
Facility design services ................................... 136
Fiber optic cabling ........................................ 82
Fiber optic transmitter/receiver systems ................. 40
Film Equipment ............................................. 34
Frame synchronizers ....................................... 52
Frequency conversion equipment ......................... 60
GPS equipment ............................................. 66
Graphics & Animation Systems ......................... 34
Graphics software ......................................... 34
Graphics systems .......................................... 34
HDTV up/downconverters ................................ 52
Headphones ............................................... 12
Interactive systems ....................................... 40
Intercom & IFB Products .................................. 34
Internet production systems .............................. 40
Keyers ....................................................... 44
LCD projectors .............................................. 72
Lens converters/accessories ............................... 34
Lens systems ............................................... 34
Lenses & Accessories ..................................... 34
Lighting Equipment ........................................ 38
Lightning protection products ............................ 44
Line doublers/quadruplers ................................. 72
Master clock systems ..................................... 50
Master control switchers .................................. 20
Media streaming equipment/services ...................... 40
Microphone accessories ................................... 38
Microphones & Accessories ............................. 38
Microwave, Fiber Optic & Telco Equipment .......... 40
MMDS products ............................................ 60
Modular frame systems ................................... 82
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- Room control (lighting, screen settings, or other functions) via internal relays
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Check out the System 7SC Webcast demo at www.extron.com/v/system7sc

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Multimedia, CD-ROM & Internet Development .................................. 40
Nonlinear editors .................................................. 70
On-air presentation systems ........................................ 79
Outdoor display equipment ...................................... 50
Pan/tilt heads ......................................................... 26
Plasma displays ...................................................... 72
Portable mixers ......................................................... 16
Power (AC) products ................................................. 44
Power Products (AC & DC) ......................................... 44
Power supplies .......................................................... 44
Production Switchers & Effects ................................... 44
PSIP and DTV data encoders .................................... 20
Racks/furniture .......................................................... 50
Recordable media (tape and disc) ................................. 46
Recording Media & Accessories .................................. 46
Remote control systems (transmitter) ........................... 60
RF combiners ......................................................... 46
RF Feedline, Components & Towers .............................. 46
RF test equipment .................................................... 56
RF transmitting tubes ................................................. 46
Robotic camera controls ........................................... 24
Sample rate converters .............................................. 18
Satellite Equipment .................................................. 48
Satellite flyaway systems .......................................... 66
Satellite receivers and antennas ................................ 48
Satellite uplink trucks ................................................. 66
Satellite uplinks ........................................................ 48
Scan converters ......................................................... 52
Sound cards .............................................................. 12
Sound/music/image libraries ....................................... 12
Speakers ................................................................. 12
Spectrum analyzers ................................................... 56
Standards converters ................................................. 52
Statistical multiplexers .............................................. 68
Still/clip stores .......................................................... 79
STL/TSL links .......................................................... 40
Studio & Facility Accessories ...................................... 50
Studio mixers ............................................................. 16
Surround sound accessories ...................................... 12
Sync/test generators ................................................ 56
Tape library systems ................................................ 79
TBCs, Frame Syncs & Conversion Equipment ................. 52
Telco interface equipment ......................................... 40
Telescines ................................................................. 34
Telephone hybrids ..................................................... 40
Teleprompters and prompting software ....................... 26
Test & Measurement Equipment ................................. 56
Test equipment-general .............................................. 56
Time base correctors ................................................ 52
Time code equipment ................................................ 66
Tools ....................................................................... 50
Tower accessories ..................................................... 46
Tower lighting equipment .......................................... 46
Towers ................................................................. 46
Transmission line (RF) ................................................ 46
Transmission line accessories .................................... 46
Transport cases ........................................................ 50
TV aural modulation monitors ................................... 56
TV business automation (traffic systems) ...................... 20
TV exciters ............................................................... 60
TV facility automation .............................................. 20
TV news automation systems .................................... 20
TV RF monitoring equipment ..................................... 56
TV transmitters ........................................................ 60
TV Transmitters, Translators, Exciters & Antennas ........... 60
TV transmitting antennas .......................................... 60
Utility carts .............................................................. 50
VBI data software systems ........................................ 66
VDRs (video disk recorders) ....................................... 79
Vehicles & Remote Equipment ..................................... 66
Video Accessories ..................................................... 66
Video A-D/D-A converters ........................................ 52
Video analyzers ......................................................... 56
Video cable ............................................................... 82
Video captioning equipment ....................................... 66
Video cards ............................................................... 30
Video Compression Equipment ................................. 68
Video connectors ...................................................... 82
Video DAs ............................................................... 73
Video Editing Systems ............................................. 70
Video monitor parts and accessories ........................... 72
Video monitors ......................................................... 72
Video Monitors, Projectors & Accessories ...................... 72
Video noise reduction systems ................................... 68
Video patch panels .................................................... 66
Video presentation equipment .................................... 72
Video processing amplifiers ..................................... 73
Video Routing & Distribution .................................... 73
Video routing switches ............................................. 73
Video servers ........................................................... 79
Video Servers & Storage .......................................... 79
Video walls ............................................................... 72
Virtual sets .............................................................. 24
VTRs (video tape recorders) ....................................... 79
Waveform monitors/ vectorscopes ................................ 56
Weather/data systems ............................................... 50
Wire, Cable & Connectors ......................................... 82
Wireless mics ............................................................ 38
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### Video Routing

Includes: Control signal routers/patch panels; Video DAs; Video processing amplifiers; Video routing switchers

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New WIDELine™ broadcast rigid transmission line offers good VSWR performance across the entire width of the UHF band. New DUALine™ rigid coaxial line is ideal for combining both DTV and NTSC signals for a single station into one line. Both are thermally compensated the same as MACXLine.

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GUIDELine® circular waveguide is an ideal choice for high power broadcast, with its cross-polarization cancellation rods, for lowest attenuation and highest power.

Reliable HELIAX® air-dielectric coaxial cable is available in sizes up to 5’. New, high power Type HJ9HP-50, 5’ cable has an average power rating higher than 6-1/8’’ cable.

All of our transmission lines are conservatively rated. One of them is the right choice to optimize the performance of your broadcast system!
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Now Andrew offers a unique solution (patent pending) to the problem of diminishing tower top real estate. The STACKER offers high antenna density without the tradeoffs of in-line stack designs or the expense of a Candelabra or T-Bar.

The "secret" to STACKER's success is the careful integration of the lower antenna(s) into the support structure. Using advanced computer modeling tools, Andrew engineers optimize the structure mechanically without compromising the electrical performance of each antenna.

Service access to each antenna is preserved, as there is no mechanical interconnection between antennas. In fact, the STACKER design is so flexible that any antenna may be replaced while the structure remains on the tower and other stations remain on the air.

- Maximize antenna density at the tower top
- Independent operation, service & replacement of each antenna
- Superior azimuth pattern performance
- Lowest wind load per antenna
- Avoid the tradeoffs of other stack designs
- Performance of a Candelabra without the price

Typical Azimuth Patterns

Lower Antenna of In-line Stack (External 6" Rigid Coax for Top Antenna)

The pattern above shows one of the shortcomings of an in-line stack. If the transmission line for the upper antenna is routed up the outside of the lower antenna, it can impact the azimuth pattern.

If the transmission line for the upper antenna is routed through the lower antenna, power handling and pattern control are compromised. This also complicates the mechanical design (and increases the cost) of the lower antenna.

Lower Antenna(s) of STACKER

Every element of the STACKER mechanical design is chosen to minimize scattering and re-radiation. Transmission line for the upper antenna is routed behind the non-radiating leg—effectively disappearing from the view of the lower antenna(s).
ALP Series II Antennas

New Andrew ALP Series II antennas deliver the versatility, power, and reliability that are the keys to success in today's competitive broadcast marketplace.

For full-power stations transitioning to DTV, ALP Series II antennas offer field-proven solutions. Broadcasters with medium power requirements can benefit from this antenna's light weight, low wind loads, and easy installation which provide reductions in installation time and costs.

For Low Power Television (LPTV) stations the new, higher power handling capabilities of the ALP Series II UHF antennas make them the ideal choice for the higher ERPs now allowed for LPTV stations and translator facilities. The ALP Series II antennas offer the quality and performance needed to improve coverage and maintain competitiveness in today's broadcast marketplace.

- Available for immediate implementation of DTV channels
- All CCIR bands IV/V channels available
- Lightweight/low wind load
  - Easy to install with less expense
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  - Low maintenance
  - Reliable
- Power ratings up to 28 kW (peak) available
- Customized patterns
  - Optimize coverage for your market area
- Wide selection of "off the shelf" patterns
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- Patterns measured at factory
  - Reliable performance in the field
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- Special designs available
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  - Broadband versions available
Andrew Passive Power Products

Leveraging over 60 years of technology leadership and world-wide service to the industry, Andrew provides broadcasters and broadcast industry OEMs with high-performance, high-reliability passive power products for broadcast TV, DTV, radio, or DAB applications in the 30 kHz to 3 GHz frequency range.

Andrew also develops products for major OEMs to meet their stringent specifications. We maintain customer-specific designs and offer brand labeling on request.

For superior system performance and unmatched system reliability, specify Andrew Passive Power Products.

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<th>Fujinon's XA87x13.2ESM</th>
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<td>9.3-810mm</td>
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<td>18.6-1620mm</td>
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JVC
GY-DV500
1/2-inch Professional Digital DV Camcorder

The JVC GY-DV500 is a high-quality 1/2-inch professional digital DV camcorder designed for professional use in broadcasting, motion picture, and video production. It features:

- Digital color processing
- Advanced optical stabilization
- Built-in viewfinder
- Easy-to-use controls

Congratulations to Sony for being the world's first 3-CCD camcorder! This product sets a new standard for high-quality digital video recording and playback.
Sony

UVW-1200/UVW-1400A
Betacam SP Player + Recorder

The UVW-1200 and UVW-1400A are non-stereo VCRs which deliver Betacam SP quality and offer features for a wide range of playback and recording applications. RGB and Y/C component video inputs and outputs allow video to be transmitted and received over a full range of video standards. A signal's true color information is faithfully preserved with its original integrity, even in the presence of other scanning or mastering formats. A variety of audio and video recording options, large screen display, and high-quality pictures ensure precise scientific research and the necessary video environment.

quadrant

HyTron 50 Battery

Wearing a two-part belt pack (yes, it is two parts!) of batteries, the Sony HyTron 50 is the 30-watt lightweight battery pack. It boasts an incredible 80-incremental 15-second storage capacity, making it ideal for long hours of recording. The HyTron 50's power lasts long enough to record a 2-hour scene or to record 10 hours while walking or while standing. The battery is also equipped with an 80-incremental 15-second storage capacity. It's the perfect choice for those who need a lot of battery life without having to carry a lot of weight.

Panasonic

PVM-20S1WU
20-inch 16:9 Color Production Monitor

The PVM-20S1WU incorporates all of the superb features of Sony production monitors for 16:9 viewing including wide screen format, advanced digital processing, multi-system compatibility, full RGB and H/V delay. It offers full digital connections, digital reference, RS-232C control and resolution. It is ideal for network cameras and other signals with the same resolution. It also has a built-in digital generator, which can be used as a test pattern or as an internal reference signal. With its excellent color reproduction and ease of use, the PVM-20S1WU is a must-have for any professional production environment.

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VIDEO and PRO AUDIO

Avid Xpress DV on IntelliStation

Avid Xpress DV on IntelliStation is a desktop digital video software solution designed to give professional creators in video, audio, and graphics, the power to communicate with video. The solution consists of an award-winning Intellistation M Pro workstation and Avid’s Xpress DV digital video content creation software. Simply plug your DV camera into the IntelliStation workstation, launch Xpress DV and begin assembling your video project using the high-powered and reliable Avid IntelliStation M Pro and intuitive Xpress DV software. You’ll be creating professional-looking videos and multimedia content for a wide variety of uses including sales and marketing videos, training videos and web-based teaching solutions in no time.

THE HARDWARE
The preconfigured Avid IntelliStation M Pro features a high-speed Intel 686 chip set, 733 MHz Pentium III processor, 1 GB of RAM, 40 GB of hard drive space, a CD-ROM drive, and a 15" flat panel monitor. The system is controlled using a Microsoft Windows 98 Professional operating system and equipped with Windows NT 4.0. The Xpress DV software included with the IntelliStation comes pre-loaded as an application within the Windows operating system. The Xpress DV software includes a user-friendly editor that allows you to edit, organize, and manage your video footage easily.

THE SOFTWARE
Avid Xpress DV includes powerful tools and features for video editing, video encoding, and multimedia management. Features include:

- Avid Xpress DV Editor:
  - Support for DV, HDV, and AVCHD formats
  - Advanced trimming and splicing tools
  - Real-time nested editing
  - Includes video effects and transitions

- Avid Xpress DV Audio:
  - Supports multichannel audio recording and editing
  - Includes effects such as equalization, reverb, and delay

- Avid Xpress DV Effects:
  - Includes effects such as motion blur, lens flare, and object removal

- Avid Xpress DV Projects:
  - Supports integration with Avid Media Composer and Avid DS

THE SERVICE
Avid Xpress DV offers a wide range of services to help you get the most out of your video editing and multimedia projects.

- Technical support and training
- Customized solutions for professional creators

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Editor
You start with the Editor for uploading both video and audio clips. The Editor consists of the live picture viewer. In Out point and duration functions, audio/visual edit points are inserted into the Out point and duration fields. Using the Editor, you can upload video and audio clips, and access VCR control functions.

Ciglee
This is where you store program material designated as clips. You can group clips and daisychain the Ciglee according to your needs. Two display modes are provided: picture mode and text mode. In picture mode, you can select four different sub-modes.

Timeline
The timeline is where you build your project. Each track may hold video, graphics, titles, audio, or a combination of these. Edits are made in the timeline, and transitions are dragged and dropped onto the timeline in sequential order. There are various timecode fields available. You can select any items displayed such as Index of Pictures, the title of a clip, a mark, information, current frame number, and many others.

Trim Editor
A Trim Editor is available for precise trimming on the timeline. It is opened as an independent window, with the video of the cut point of the "trim" and the point of the "trim" displayed. The frame size of the timeline can be changed and the trim area can be performed. Clips can also be played and trimmed directly on the Clip Monitor which is selected from the timeline.

Audio Editor
With the Audio Editor, you can add suitable transitions, audio effects, and spatial effects. You can also change the audio level and balance. Edits can be made in the timeline and transitions can be added as necessary.

Video/Photo Editor
The Video/Photo Editor allows you to create and edit video and photo sequences. You can add titles, graphics, and effects to your video and photo projects. Additionally, you can import and export video and photo files to and from other applications.

IntelliStation M Pro
Avid's IntelliStation M Pro is the perfect workstation for professional creators. The system includes a powerful Pentium III processor, 1 GB of RAM, and 40 GB of hard drive space. The system also includes a 15" flat panel monitor and a CD-ROM drive. The Intel EEG chip set provides fast processing speed, and the system is designed to handle large multimedia projects.

M4000C
Avid's M4000C is a high-performance workstation designed for professional creators. The system includes a Pentium III processor, 2 GB of RAM, and 80 GB of hard drive space. The system also includes a 19" flat panel monitor and a DVD-ROM drive. The Intel EEG chip set provides fast processing speed, and the system is designed to handle large multimedia projects.

THE HARDWARE
The preconfigured Avid IntelliStation M Pro features a high-speed Intel 686 chip set, 733 MHz Pentium III processor, 2 GB of RAM, 80 GB of hard drive space, a CD-ROM drive, and a 19" flat panel monitor. The system is controlled using a Microsoft Windows 98 Professional operating system and equipped with Windows NT 4.0. The Avid Xpress DV software included with the IntelliStation comes pre-loaded as an application within the Windows operating system. The Xpress DV software includes a user-friendly editor that allows you to edit, organize, and manage your video footage easily.

THE SOFTWARE
Avid Xpress DV includes powerful tools and features for video editing, video encoding, and multimedia management. Features include:

- Avid Xpress DV Editor:
  - Support for DV, HDV, and AVCHD formats
  - Advanced trimming and splicing tools
  - Includes video effects and transitions

- Avid Xpress DV Audio:
  - Supports multichannel audio recording and editing
  - Includes effects such as equalization, reverb, and delay

- Avid Xpress DV Effects:
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- Avid Xpress DV Projects:
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